# 2008 ANNUAL INDEX

# **AUTHORS**

Aalders IJ, 574 Abdelmessih MW, 749 Admiraal RJC, 335 Ahlrichs-Hanson J. 510 Ahmad SM, 106; 555 (letter to editor) Ahuja G, 327 Akcam T, 523 Aktan B, 389 Alexander RE, 731 Alexiades G, 396 (book review) Allen J. 919 Almeida ST, 253 Altman KW, 353 Amaral AV, 366 Amin MR, 90 Anderson I, 645 Anderson RR, suppl 199 Andrews BT, 298 Ardito F, 902 Armstrong WB, 538

Asato R, 673

Bağlam T, 103 Bailey M, 891 Baisch A, 815 Bang C-I, 781 Baroody FM, 501 Barrett TG, 494 Barretto R, 327 Barton M, 85 Bassotti E, 902 Batra PS, 32 Battat E, 839 Bayazit YA, 103 Becker SS, 931 Bedson J, 569 Beijen J-W, 397 Belafsky PC, 1, 587, 919 Bellekom SR, 791 Ben-Ari J, 896 Benjamin B, suppl 200 Bento RF, 665 Berke GS, 703 Berzofsky C, 604 Bhattacharyya N, 18, 448, 517 Billante CR, 621 Birchall MA, 891 Birkent H. 523 Bischoff-Ferrari HA, 864 (commentary) Bless D, 65, 145, 153, 227, 413

Bloom D, 113

Blumin JH, 159, 259, 688

Bock JM, 506, 510

Bomeli SR, 931

Borges JdeP, 786

Bondy P, 679

Blum S. 288

Boudewyns A, 815 Brandão LG, 581 Braun J, 528 Braun NM, 259 Brito R, 665 Bron-Harlev E, 839 Brook I, 310, 727 Bruno R, 494 Burns JA, suppl 199 Calò L, 902

Campelo VES, 774 Cannell JJ, 864 (commentary) Capaccio P. 245 Capelli FdeA, 581 Carnaby-Mann GD, 279 Carpenter JM, 24 Cervera-Paz FJ, 212 Chae S-W, 347 Chan RW, 430 Chang EH, 637 Chang K-H, 470 Chang S-Y, 201 Chen TC, 740 Chen Z, 327, 538 Chheda NN, 670 Chhetri DK, 159, 703 Chi DH, 443 Chihara Y, 641 Chitose S, 5 Cho J-G, 347 Choo D, 711 Chu P-Y, 201 Citardi MJ, 32 Close LG, 177 Cohen SD, 15 Connor N. 477 Cornalba P. 245 Cosetti M, 827 Coticchia JM, 464 Cotton R, 110 Couloigner V, 123 Crary MA, 279 Cremers CWRJ, 335, 494, 805 Crozier DL, 74 Cuccarini V, 245 Cuiuli G. 800 Culang D, 827 Cuttance G, 501

Dailey S, 74, 413 Damrose EJ, 159 Darrow D, 27 David EFL, 574 Davies J, 659 Davis PB, 791 Debnath I, 382 Deguchi S, 876 DeLacure MD, 172 Delos M, 239 de Magalhães RP, 581 de Negreiros J Jr, 708 De Ridder D, 645 Derkay C, 27 DeRowe A, 896 deTineo M, 501 de Wolf MJF, 805 Diebl M, 645 Dietlein M. 854 Doellinger M, 484 Dogru S, 753 Dolitsky JN, 740 Donnelly LF, 303 Donovan DT, 531 Dubin MR, 177 Duflo S, 221 Durucu C, 103

Eberl DF, 827 Eckley CA, 786 El-Hakim H, 614 Eller P, 494 Elliott CA, 118 Esclamado RM, 40

Fadda G, 902
Faquin W, 371
Feinmesser R, 564
Ferlin EL, 253
Ferrary E, 123
Ferrieri P, 630
Fishman G, 896
Ford CN, 477, 515
Fradis M, 528
French LC, 598, 696
Fridman N, 295
Fukuda S, 166
Fukushima K, 166
Funk GF, 298

Gadban H, 46 Gagliardi M, 11 Gagliardi S. 800 Galli J, 902 Galtelli C, 653 Ge PJ, 598 Gerek M. 523 Gilbey P. 46, 295 Giovannucci E, 864 (commentary) Gober AE, 310, 727 Goldani HAS, 253 Grande-Allen KJ, 371 Grant T, 679 Grant WB, 864 (commentary) Grayeli AB, 123 Gristwood RE, 569

# 2008 ANNUAL INDEX

# **AUTHORS**

Aalders IJ, 574 Abdelmessih MW, 749 Admiraal RJC, 335 Ahlrichs-Hanson J. 510 Ahmad SM, 106; 555 (letter to editor) Ahuja G, 327 Akcam T, 523 Aktan B, 389 Alexander RE, 731 Alexiades G, 396 (book review) Allen J. 919 Almeida ST, 253 Altman KW, 353 Amaral AV, 366 Amin MR, 90 Anderson I, 645 Anderson RR, suppl 199 Andrews BT, 298 Ardito F, 902 Armstrong WB, 538

Asato R, 673

Bağlam T, 103 Bailey M, 891 Baisch A, 815 Bang C-I, 781 Baroody FM, 501 Barrett TG, 494 Barretto R, 327 Barton M, 85 Bassotti E, 902 Batra PS, 32 Battat E, 839 Bayazit YA, 103 Becker SS, 931 Bedson J, 569 Beijen J-W, 397 Belafsky PC, 1, 587, 919 Bellekom SR, 791 Ben-Ari J, 896 Benjamin B, suppl 200 Bento RF, 665 Berke GS, 703 Berzofsky C, 604 Bhattacharyya N, 18, 448, 517 Billante CR, 621 Birchall MA, 891 Birkent H. 523 Bischoff-Ferrari HA, 864 (commentary) Bless D, 65, 145, 153, 227, 413

Bloom D, 113

Blumin JH, 159, 259, 688

Bock JM, 506, 510

Bomeli SR, 931

Borges JdeP, 786

Bondy P, 679

Blum S. 288

Boudewyns A, 815 Brandão LG, 581 Braun J, 528 Braun NM, 259 Brito R, 665 Bron-Harlev E, 839 Brook I, 310, 727 Bruno R, 494 Burns JA, suppl 199 Calò L, 902

Campelo VES, 774 Cannell JJ, 864 (commentary) Capaccio P. 245 Capelli FdeA, 581 Carnaby-Mann GD, 279 Carpenter JM, 24 Cervera-Paz FJ, 212 Chae S-W, 347 Chan RW, 430 Chang EH, 637 Chang K-H, 470 Chang S-Y, 201 Chen TC, 740 Chen Z, 327, 538 Chheda NN, 670 Chhetri DK, 159, 703 Chi DH, 443 Chihara Y, 641 Chitose S, 5 Cho J-G, 347 Choo D, 711 Chu P-Y, 201 Citardi MJ, 32 Close LG, 177 Cohen SD, 15 Connor N. 477 Cornalba P. 245 Cosetti M, 827 Coticchia JM, 464 Cotton R, 110 Couloigner V, 123 Crary MA, 279 Cremers CWRJ, 335, 494, 805 Crozier DL, 74 Cuccarini V, 245 Cuiuli G. 800 Culang D, 827 Cuttance G, 501

Dailey S, 74, 413 Damrose EJ, 159 Darrow D, 27 David EFL, 574 Davies J, 659 Davis PB, 791 Debnath I, 382 Deguchi S, 876 DeLacure MD, 172 Delos M, 239 de Magalhães RP, 581 de Negreiros J Jr, 708 De Ridder D, 645 Derkay C, 27 DeRowe A, 896 deTineo M, 501 de Wolf MJF, 805 Diebl M, 645 Dietlein M. 854 Doellinger M, 484 Dogru S, 753 Dolitsky JN, 740 Donnelly LF, 303 Donovan DT, 531 Dubin MR, 177 Duflo S, 221 Durucu C, 103

Eberl DF, 827 Eckley CA, 786 El-Hakim H, 614 Eller P, 494 Elliott CA, 118 Esclamado RM, 40

Fadda G, 902
Faquin W, 371
Feinmesser R, 564
Ferlin EL, 253
Ferrary E, 123
Ferrieri P, 630
Fishman G, 896
Ford CN, 477, 515
Fradis M, 528
French LC, 598, 696
Fridman N, 295
Fukuda S, 166
Fukushima K, 166
Funk GF, 298

Gadban H, 46 Gagliardi M, 11 Gagliardi S. 800 Galli J, 902 Galtelli C, 653 Ge PJ, 598 Gerek M. 523 Gilbey P. 46, 295 Giovannucci E, 864 (commentary) Gober AE, 310, 727 Goldani HAS, 253 Grande-Allen KJ, 371 Grant T, 679 Grant WB, 864 (commentary) Grayeli AB, 123 Gristwood RE, 569

Gross CW, 931 Guaraldo L, 786 Gubbels SP, 396 (book review) Gundogdu C, 389 Guo S, 327, 538 Gürkov R, 764 Gutmark E, 134, 303 Gutowska-Owsiak D, 891 Guttman D, 564

Hadar T, 564 Haginomori S-I, 719 Hahn MS, 371 Hamans E, 815 Hamilton GS, 637 Hamzany Y, 564 Han D, 127 Han JH, 909 Han JK, 931 Handler E, 688 Hanley PJ, 791 Hannan F, 827 Hansen MR, 753 Harabuchi Y, 621 Hart S. 703 Hashida K, 745 Hathcock JN, 864 (commentary) Hattori R, 51

Hattori R, 51 Hausen M, 665 Heaton JT, 557 Hempel J-M, 764 Henkener LJ, 594 Hicks D, 40 Hillman RE, suppl 199; 557 Hiraki N, 745

Hirano S, 696, 881 Hoa M, 464 Hoffman HT, 298, 510 Hoisington DR, 263 Hol MKS, 805 Holick MF, 740 Holinger LD, suppl 200

Hollis BW, 864 (commentary) Hornibrook J, 395 (letter to editor) Huang S, 621

Huang S, 621 Hummel T, 769 Hundal JS, 749 Huygen PLM, 494, 805 Hwang S-J, 347

Imagawa H, 430 Imamura R, 774 Imperiali M, 902 Inman CF, 891 Insausti AM, 212 Iro H, 271

Isenberg JS, 74 Ishizuka Y, 849 Ito J, 881

Ivey CM, 353 Iwasaki S, 641

Jackson R, 538 Jacob A, 98 Jafri MS, 341 Jahan-Parwar B, 703 Jang YJ, 844, 909 Jao CY, 371 Jatana KR, 98 Jense RJ, 659 Jeong S-H, 186 Jiang JJ, 548 Johnson JT, 591 Johnson K, 27 Johnson RF, 110 Johnston N, 688, 891 Joo Y-H, 781 Jung K-Y, 347 Jungehuelsing M, 854

Kadmon G, 839 Kadokawa Y, 745 Kalra M. 303 Kanda JL, 581 Kanehira K, 153 Kanemaru S, 609, 673, 881 Kang H-J, 347 Kanlikama M, 103 Karacalioglu O. 523 Karatas E, 103 Karnell LH, 510 Katada A, 621 Kato N. 881 Kawashima K, 876 Kazim M, 177 Kelleher SP, 749 Kepnes LJ, 448 Keppel K, 259

Khatib S, 769 Khosla S, 134, 303, 437 Khrais T, 653 Kim DC, 327 Kim IJ, 844 Kim JS, 186 Kim M-S, 781 Kimura M, 430 Kindermann CA, 425 Kingsley EL, 464

Kerschner JE, 259, 688

Kingsley EL, 464 Kirtsreesakul V, 914 Kishimoto Y, 881

Kobayashi K, 59, 359, 453, 673 Koch M, 271

Komori M, 630 Koo J-W, 186 Kos MP, 574 Kotla S, 827 Koufman JA, 891 Krause E, 764 Krug B, 854 Kunduk M, 484 Kunibe I, 621

Lacy PD, 834 Laflen JB, 90

Kurogi R, 849

Lakhamraju R, 134 Lamberg-Allardt CJ, 864 (commentary)

Lamberg-Ariard CJ, 864 (commer LaMear WR, 24 Lappe JM, 864 (commentary)

Larson-Meyer DE, 864 (commentary) La Torre G, 902

Lawson G, 239 Lazarus CL, 90 Lee B-J, 844, 909 Lee D-H, 470 Lee H-M, 347 Lee JH, 844, 909 Lee KH, 81 Lee KYS, 313 Lee L, 871 Lee WT, 40 Leeuw AR, 397 Leonard RJ, 919 Letichevsky V, 46 Levine HL, 263 Li J, 192 Li W-Y, 201 Lim X, 145, 227 Lima LFR, 774 Lin J, 341, 630 Linday LA, 740 Lindsay F, 113 Lohscheller J, 484 Lombardi D, 653

Lombardi D, 653 Lombardo F, 494 Lopez-Guerra G, suppl 199 Lorenz RR, 40 Louza JPR, 764 Lubianca Neto JF, 425 Luntz M, 528

MacFarlane M, 395 (letter to editor)

Magliulo G, 11, 800 Magrufov A, 609 Mahieu HF, 574 Majima Y, 51 Makinson D, 501 Mankarious LA, 925 Manrique M, 212 Maronian N, 659 Marsiglia A, 366 Martin-Bredahl KJ, 594 Martinez-Alvernia EA, 925 Martins RHG, 366 Matsuura K, 745 Matsuzuka T, 673 Matthews BL, 15 McMurray JS, 477 McWhorter AJ, 484 Meinzen-Derr J, 711 Meng X, 192 Merati AL, 159, 259, 523 Mihaescu M, 303 Miller S. 207 Milstein C, 40 Mimaki N, 166 Minorati D, 245 Moran RJ, 834 Morassi ML, 653 Morita S, 849 Mortensen M, 684 Mouadeb DA, 1, 919

Mueller CA, 769

Mumbuç S, 103

Murofushi T, 641

Muñoz-Del-Río A, 227

Murugappan S, 134, 303

Mylanus EAM, 397, 805 Myssiorek D, 731

### Naclerio RM, 501 Nagar H, 896 Nagatani G, 745 Nahum E, 839 Naka A, 769

Nakamura T, 59, 359, 453, 609, 673

Nakashima T, 5, 734 Naureckas ET, 501 Nevison B, 212 Nicolai P, 653 Nikiforova MN, 591 Nishizaki K, 166 Nita LM, 774 Nito T, 430 Nollevaux M-C, 239 Nomoto Y, 59, 359, 673 Nonaka R, 719

Nonaka S, 621 Nopp P, 645 Norman AW, 864 (commentary)

Novello C, 800

### O'Brien P, 827 O'Brien TJ, 886 Oestreicher-Kedem Y, 896 Oh D-H, 186 Oh J-H, 470 Oh Y-M, 186 Ohno T, 598, 696 Oliveira CA, 708 Omori K, 59, 359, 453, 609, 673 Ortmann M, 854

Ortmann M, 854 Ossoff RH, 696 Ottaviani F, 245 Özdemir H, 389

Packer P. 207 Paik S-Y, 781 Pajewski NM, 688 Paki B, 791 Paludetti G, 902 Paniello RC, 382, 437, 594 Panneerselvam A, 659 Paquis-Fluklinger V, 494 Parente MAMP, 253 Parham K, 886 Park S-Y. 470 Parke RB, 531 Parrotto D, 11, 800 Passali GC, 902 Patel R, 413 Pauls S. 548 Pazmany L, 891 Pennings RJE, 494 Pensak ML, 871 Perez J. 327, 538 Pessin ABB, 366 Pham AM, 587

Phillips A, 891

Pineda M, 27

Pinto FR, 581

Pignataro L, 245

Pimenta WdeP, 366

Pinto JM, 501 Pitman MJ, 604 Plantinga RF, 494 Plinkert PK, 288 Poetker DM, 759 Popolo PS, 404 Postma G, 670, 891, 919 Pransky S, 113 Pritikin J, 263 Proud V, 27 Pryor JC, 919

Qiu X, 192 Quinn SA, 791

Rader T. 764 Raval TH, 118 Ray-Chaudhury A, 98 Rees CJ, 1, 587, 919 Rees LF, 891 Regner MF, 548 Reilly RB, 834 Remacle M, 239 Ribeiro FdeAQ, 786 Rice DH, 80 (letter to editor) Rich JT, 382 Ridgway JM, 327, 538 Riew KD, 594 Roark RM, 604 Rodrigues S, 207 Roguin N, 295 Roithmann R, 425 Romig C, 659 Rousseau B, 598, 696 Roy N, 85 Ruscetta MN, 443

Sahin-Yilmaz A, 501 Saigusa H, 849 Salomone R, 665 Sambataro G, 245 Sampaio ALL, 708 Samuels TL, 688 Sasaki CT, 749 Sato K. 5, 734 Sautter NB, 32 Schaefer SD, 604 Scharpf J, 40 Schessel DA, 824 Schonfeld T, 839 Schroeder U, 854 Schwartz AM, 824 Scruggs JT, 177 Seo J-H, 470 Sepehr A, 327 Sertich AP II, 263 Sesana WE, 708 Shapshay SM, 353 Sharma A. 591 Sharma S, 604 Shick P, 113

Shihada R, 528

Shimizu S, 51

Shimizu T, 51

Shimizu Y, 609

Rutter M. 81, 110

Shindledecker RD, 740 Shine NP, 207 Shnayder Y, 172 Shvero J, 564 Sidell D, 824 Sikora AG, 172 Silber J. 731 Sills JH, 327 Simões ACP, 366 Simons JP, 443 Sittel C. 288 Slone HW, 98 Smit CF, 574 Smith JC, 556 (book review) Smith ME, 85, 437 Smith RB, 298 Smith TL, 759 Snik AFM, 397 Soliman AMS, 106; 555 (letter to editor) Song J, 192 Song X, 127 Souter K, 659 Stabley R, 113 Staecker H, 341 Stepp CE, 557 Sterkers O, 123 Stern Y, 839 Stoddard K, 85 Stokes CR, 891 Streckfuss A. 288 Strome M. 40 Stuck BA, 815 Stuetzer H, 854 Su J, 327, 538 Suehiro A. 881 Sulica L, 159, 437; 554 (letter to editor) Sun D-I, 781 Surles RL, 65, 153 Sütbeyaz Y, 389 Suzuki H, 745 Suzuki M, 849 Suzuki T, 359, 453, 673 Suzuki Y, 453 Syring ML, 688

Tabaee A, 177; 556 (book review) Tada Y, 59, 359, 453, 673 Takenaka H, 719 Takezawa T, 359 Talmon Y. 46, 295 Tanna N, 824 Tanumihardjo S, 65, 153; 864 (commentary) Tao C, 548 Tateya I, 65, 145, 153 Tateya T, 65, 153 Tayama N, 430 Teker AM, 40 Temmel AFP, 769 Tessema B, 604 Thamjarungwong B, 914 Thibeault SL, 221, 598 Titze IR, 404 Tong MCF, 313 Trask DK, 506

Tsai VW, 159 Tsuchiva K. 630 Tsuji DH, 774 Tsuji RK, 665 Tuntaraworasin J, 914

Udaka T. 745 Ueda K. 719 Umeno H, 5 Ushio M, 641

Van Daele D, 753 Van de Heyning P, 645, 815 van der Avoort SJC, 335 van Hasselt CA, 313 van Heerbeek N. 335 Van Himbergen D, 621 Vardizer Y, 528 Vent J, 854 Verbraecken J, 815 Vermeire K, 645 Vialettes B, 494 Vianna MR, 786 Vieth R, 864 (commentary) Visosky AMB, 531 Vokes DE, 538

Wada I, 59, 453 Walvekar RR, 591 Wang H, 127 Wang JH, 844, 909 Wang K, 127 Wasan A, 18 Washio S. 876 Wayne S, 591 Wechtenbruch J, 764 Weiss RL, 263 Welham NV, 145, 227 Welling DB, 98 White D, 110 Wiley S, 711 Willemen M, 815

White JH, 864 (commentary) Whiting SJ, 864 (commentary) Willett W, 864 (commentary) Wishniak A, 295 Wittekindt C, 854 Wong BJF, 327, 538 Woo J-S, 347, 749

Woo P, 353, 684 Woodson G. 317 Wormald RN, 834 Wright R, 327 Wu VF, 759

Xia D, 192

Yamashita M, 609, 673 Ye L, 192 Ye M, 703 Yee H, 172 Yeo S-W, 470 Yoruk O, 389 Yuan Y. 192

Zasloff M, 864 (commentary) Zealear DL, 621 Zeitels SM, suppl 199 Zenk J, 271 Zhang L, 127 Zheng QY, 630 Zhou X, 192 Zielhuis GA, 335 Zittermann A, 864 (commentary)

# **SUBJECTS**

#### Abscess

Novel technique for peritonsillar abscess drainage, 637

Vijayasekeran S, 110

Treatment of tinnitus with customized, dynamic acoustic neural stimulus: clinical outcomes in general private practice, 791

### Adduction

Reflex vocal fold adduction in porcine model: effects of stimuli delivered to various sensory nerves, 749

Obstruction of eustachian tube orifice and pressure changes in middle ear: are they correlated? 425

# Airway

Airway obstruction: rare complication of benign vocal fold polyps, 106

Computational fluid dynamics analysis of upper airway reconstructed from magnetic resonance imaging data, 303 Cricotracheal resection in nontracheotomized adults: pro-

spective case series, 288 Neonatal upper airway obstruction in osteogenesis imper-

fecta: series of three cases and review of literature, 27 Optical coherence tomography of newborn airway, 327 Utilization of LifeStat emergency airway device, 1

Ansa cervicalis-to-recurrent laryngeal nerve anastomosis for unilateral vocal fold paralysis: experience of single institution, 40

# Anesthesia

Dexmedetomidine sedation for laryngeal framework surgery, 659

### Antibiotic

Assessment of trends in antimicrobial resistance in chronic rhinosinusitis, 448

Lemierre's syndrome: what are roles for anticoagulation and long-term antibiotic therapy? 679

Microbiology and antimicrobial susceptibility patterns of commensal flora in middle nasal meatus, 914

Treatment of sinusitis with corticosteroids in combination with antibiotics in experimentally induced rhinosinusitis,

### Anticoagulation

Lemierre's syndrome: what are roles for anticoagulation and long-term antibiotic therapy? 679

Do anxiety and depression confound symptom reporting and diagnostic accuracy in chronic rhinosinusitis? 18

# Apnea

Adjustable tongue advancement for obstructive sleep apnea: pilot study, 815

Computational fluid dynamics analysis of upper airway reconstructed from magnetic resonance imaging data, 303 Uvulopalatopharyngoplasty: results of patient questionnaire,

24

## Arytenoid adduction

Collagen injection as supplement to arytenoid adduction for vocal fold paralysis, 430

### Aspiration

Botulinum toxin injection to salivary glands for treatment of sialorrhea with chronic aspiration, 118

Computerized scoring system for diagnosis of foreign body aspiration in children, 839

Long-term results of laryngeal suspension and upper esophageal sphincter myotomy as treatment for life-threatening aspiration, 574

### Audiometry

Auditory evaluation in patients with type 1 diabetes, 366

### Auditory brain stem implant

Effects of cochlear nuclei electrical stimulation with surface brain stem implants in nonhuman primates, 212

### Auditory skills

Auditory skills development among children with developmental delays and cochlear implants, 711

#### Auscultation

Assessment of swallowing sounds by digital cervical auscultation in children, 253

#### Bacteria

Damage to ciliated epithelium in chronic rhinosinusitis: what is role of bacterial biofilms? 902

Microbiology and antimicrobial susceptibility patterns of commensal flora in middle nasal meatus, 914

Recovery of potential pathogens in nasopharynx of healthy and otitis media-prone children and their smoking and nonsmoking parents, 727

#### Ralance

Prevalence and characteristics of preoperative balance disorders in cochlear implant candidates, 764

#### Ralloon

Multicenter registry of balloon catheter sinusotomy outcomes for 1,036 patients, 263

Role of balloon dilation in management of adult idiopathic subglottic stenosis, 81

### Bilateral stapedectomy

Bilateral stapedectomy: association between first- and second-ear surgical findings and their effects on second-ear outcome, 207

### Bimodal fitting

Should hearing aid in contralateral ear be recommended for children with unilateral cochlear implant? 397

### Bipotential collagen scaffold

Regeneration of tracheal epithelium utilizing novel bipotential collagen scaffold, 359

### Blindness

Unilateral blindness following septoplasty, 528

### Bone-anchored hearing aid

Nijmegen results with application of bone-anchored hearing aid in children: simplified surgical technique, 805

### **Book Reviews**

Gulya AJ, ed. Gulya and Schuknecht's Anatomy of the Temporal Bone With Surgical Implications, 396

Hormann K, ed. An Update on Sleep Disordered Breathing, 556

### Hughes G, Pensak M. Clinical Otology, 396

Wormald P-J. Endoscopic Sinus Surgery: Anatomy, Three-Dimensional Reconstruction, and Surgical Technique, 556

### **Botulinum toxin**

Botulinum toxin injection to salivary glands for treatment of sialorrhea with chronic aspiration, 118

Injection of botulinum toxin into external laryngeal muscles in pediatric laryngeal paralysis, 614

### Cantonese

Tone perception in Cantonese-speaking children with hearing aids, 313

### Carcinoma

Contralateral maxillary sinus lesions in patients with nasal cavity and/or paranasal sinus carcinoma: analysis of computed tomography findings, 909

Development of mucosal thickening after radiotherapy in contralateral sinuses of patients with nasal cavity and/or paranasal sinus carcinoma, 844

Laryngeal carcinoma in nonsmoking patients, 564

# Cartilage

Matrix metalloproteinases 2 and 9 are concentrated in luminal aspect of cricoid cartilage, diminish with loss of perichondrium, and are reinstated by transforming growth factor beta 3, 925

Morphometric study on anatomy of fetal cricoid cartilage and comparison between its inner diameter and endotracheal tube sizes, 774

### Cell

Cell growth inhibition and down-regulation of survivin by silibinin in laryngeal squamous cell carcinoma cell line, 781

EP4 agonist inhibits lipopolysaccharide-induced mucus secretion in airway epithelial cells, 51

Roles of vitamin A and macula flava in maintaining vocal folds, 65

### Cerebrospinal fluid

Endoscopic management of sphenoid sinus cerebrospinal fluid leaks, 32

### Cervical auscultation

Assessment of swallowing sounds by digital cervical auscultation in children, 253

#### Chiari I malformation

Sensorineural hearing impairment in children with Chiari I malformation, 443

### Chronic rhinosinusitis

Assessment of trends in antimicrobial resistance in chronic rhinosinusitis, 448

Damage to ciliated epithelium in chronic rhinosinusitis: what is role of bacterial biofilms? 902

Do anxiety and depression confound symptom reporting and diagnostic accuracy in chronic rhinosinusitis? 18

Relationship between mucosal inflammation, computed tomography, and symptomatology in chronic rhinosinusitis without polyposis, 517

### Cidofovir

Cidofovir efficacy in recurrent respiratory papillomatosis: randomized, double-blind, placebo-controlled study, 477

Histologic review of cidofovir-treated recurrent respiratory papillomatosis, 113

### Ciliary beat frequency

Effect of oxymetazoline on healthy human nasal ciliary beat frequency measured with high-speed digital microscopy and mucociliary transport time, 127

# Cleft palate

Results of sonotubometry in testing eustachian tube ventilatory function in children with cleft palate, 335

### Closure

Orocutaneous and pharyngocutaneous fistula closure using vacuum-assisted closure system, 298

### Coblation

Coblation-assisted lingual tonsillectomy for dysphagia secondary to tongue base hypertrophy, 506

### Cochlear implant

Auditory skills development among children with developmental delays and cochlear implants, 711

Incapacitating unilateral tinnitus in single-sided deafness treated by cochlear implantation, 645

Optical coherence tomography imaging of inner ear: feasibility study with implications for cochlear implantation, 341

Prevalence and characteristics of preoperative balance disorders in cochlear implant candidates, 764 Should hearing aid in contralateral ear be recommended for children with unilateral cochlear implant? 397

#### Cochlear nuclei

Effects of cochlear nuclei electrical stimulation with surface brain stem implants in nonhuman primates, 212

### Cod liver oil

Cod liver oil, vitamin A toxicity, frequent respiratory infections, and vitamin D deficiency epidemic, 864

#### Collager

Collagen injection as supplement to arytenoid adduction for vocal fold paralysis, 430

Regeneration of tracheal epithelium utilizing novel bipotential collagen scaffold, 359

### Commensal flora

Microbiology and antimicrobial susceptibility patterns of commensal flora in middle nasal meatus, 914

### Commentaries

Cod liver oil, vitamin A toxicity, frequent respiratory infections, and vitamin D deficiency epidemic, 864

Commentary on "Microendoscopy of Reinke's Space," 515

### Compliance

Patient compliance with proton pump inhibitor therapy in otolaryngology practice, 670

# Complication

Airway obstruction: rare complication of benign vocal fold polyps, 106

Endoscopic localization of anterior and posterior ethmoid arteries, 931

Laryngeal complications of endotracheal intubation, suppl 200

Preoperative laryngeal nerve screening for revision anterior cervical spine procedures, 594

### Computational fluid dynamics

Computational fluid dynamics analysis of upper airway reconstructed from magnetic resonance imaging data, 303

### Computer-aided diagnosis

Computer-aided technique for automatic determination of relationship between transglottal pressure change and voice fundamental frequency, 876

### Concha bullosa

Large concha bullosa mucopyocele replacing anterior ethmoid sinuses and contiguous with frontal sinus, 15

### Continuous positive airway pressure

Effect of changing airway pressure on ability of human nose to warm and humidify air, 501

### Contralateral lesion

Contralateral maxillary sinus lesions in patients with nasal cavity and/or paranasal sinus carcinoma: analysis of computed tomography findings, 909

### Corticosteroid

Treatment of sinusitis with corticosteroids in combination with antibiotics in experimentally induced rhinosinusitis,

# Cricotracheal resection

Cricotracheal resection in children 2 years of age and younger, 110

Cricotracheal resection in nontracheotomized adults: prospective case series, 288

How does cricotracheal resection affect female voice? 85

### Croup

Correlating clinical course of recurrent croup with endoscop-

ic findings: retrospective observational study, 464

### Cytokine

Changes in cytokine signaling and extracellular matrix production induced by inflammatory factors in cultured vocal fold fibroblasts, 227

Inflammatory cytokine responses to synthetic extracellular matrix injection to vocal fold lamina propria, 221

### Decompression

Image-guided endoscopic orbital decompression for Graves' orbitopathy, 177

### Deep brain stimulation

Evaluation of deep brain stimulation electrode for laryngeal pacing, 621

#### Defect

Pedicled temporoparietal galeal flap for reconstruction of intraoral defects, 581

#### Depression

Do anxiety and depression confound symptom reporting and diagnostic accuracy in chronic rhinosinusitis? 18

### Developmental delay

Auditory skills development among children with developmental delays and cochlear implants, 711

### Dexmedetomidine

Dexmedetomidine sedation for laryngeal framework surgery, 659

#### Diabetes

Auditory evaluation in patients with type 1 diabetes, 366

#### Digastric muscle

Digastric muscle sew-up procedure for repair of floor of mouth following pull-through operation for oral cancers, 745

### Dilation

Role of balloon dilation in management of adult idiopathic subglottic stenosis, 81

### Diverticulum

Endoscopic management of Zenker's diverticulum: factors predictive of success or failure, 531

Staged surgical management of hypopharyngeal traction diverticulum, 731

# Drainage

Novel technique for peritonsillar abscess drainage, 637

### Dye

Retrograde labeling of rat facial nerve with carbocyanine dyes to enhance intraoperative identification, 753

## Dysphagia

Coblation-assisted lingual tonsillectomy for dysphagia secondary to tongue base hypertrophy, 506

Validity and reliability of Eating Assessment Tool (EAT-10), 919

# Dysplasia

Institutional and comprehensive review of laryngeal leukoplakia, 74

## Early glottic cancer

Photoangiolytic laser treatment of early glottic cancer: new management strategy, suppl 199

### Education

Outcomes of otologic surgeries with special interest in learning curves of residents in tertiary referral setting, 103

### **Electrical stimulation**

Adjunctive neuromuscular electrical stimulation for treat-

ment-refractory dysphagia, 279

Evaluation of deep brain stimulation electrode for laryngeal pacing, 621

Electromyography

Evaluation of functional recovery of recurrent laryngeal nerve using transoral laryngeal bipolar electromyography: rat model, 604

Elongation

Phonation threshold flow in elongated excised larynges, 548

Emergency

Utilization of LifeStat emergency airway device, 1

Endolymph

Composition of endolymphatic sac luminal fluid in patient with Mondini dysplasia, 123

Contemporary role of endolymphatic mastoid shunt surgery in era of transtympanic perfusion strategies, 871

Endoscopy

Correlating clinical course of recurrent croup with endoscopic findings: retrospective observational study, 464

Endoscopic localization of anterior and posterior ethmoid arteries, 931

Endoscopic management of sphenoid sinus cerebrospinal fluid leaks, 32

Endoscopic removal of giant fibrovascular polyp of esophagus, 587

Endotracheal tube

Laryngeal complications of endotracheal intubation, suppl 200

Morphometric study on anatomy of fetal cricoid cartilage and comparison between its inner diameter and endotracheal tube sizes, 774

Ependymoma

Spinal myxopapillary ependymoma metastatic to bilateral internal auditory canals, 98

Epidermal growth factor receptor

Expression and clinical significance of epidermal growth factor receptor and type 1 insulin-like growth factor receptor in nasopharyngeal carcinoma, 192

**Epithelium** 

Damage to ciliated epithelium in chronic rhinosinusitis: what is role of bacterial biofilms? 902

Effect of fibroblasts on epithelial regeneration on surface of bioengineered trachea, 59

Vitamin A deficiency causes metaplasia in vocal fold epithelium: rat study, 153

Esophagus

Endoscopic management of Zenker's diverticulum: factors predictive of success or failure, 531

Endoscopic removal of giant fibrovascular polyp of esophagus, 587

Long-term results of laryngeal suspension and upper esophageal sphincter myotomy as treatment for life-threatening aspiration, 574

Postoperative monitoring of esophageal pressure in patients with obstructive sleep apnea-hypopnea syndrome who have undergone tonsillectomy with uvulopalatopharyngoplasty, 849

Transnasal esophagoscopy: white-light versus narrowband imaging, 886

Ethmoid artery

Endoscopic localization of anterior and posterior ethmoid arteries, 931 Eustachian tube

Obstruction of eustachian tube orifice and pressure changes in middle ear: are they correlated? 425

Results of sonotubometry in testing eustachian tube ventilatory function in children with cleft palate, 335

Extracellular matrix

Changes in cytokine signaling and extracellular matrix production induced by inflammatory factors in cultured vocal fold fibroblasts, 227

Effect of hepatocyte growth factor on gene expression of extracellular matrix during wound healing of injured rat vocal fold, 696

Extracellular matrix gene expression after vocal fold injury in rabbit model, 598

Inflammatory cytokine responses to synthetic extracellular matrix injection to vocal fold lamina propria, 221

Inflammatory factor profiles one hour following vocal fold injury, 145

**Fatigue** 

Preliminary study on quantitative analysis of vocal loading effects on vocal fold dynamics using phonovibrograms, 484

Fibroblast

Effect of fibroblasts on epithelial regeneration on surface of bioengineered trachea, 59

Fistula

Orocutaneous and pharyngocutaneous fistula closure using vacuum-assisted closure system, 298

Sinocutaneous fistula secondary to chronic frontal rhinosinusitis: case series and literature review, 759

Vocal fold paralysis in infants with tracheoesophageal fistula, 896

Flap

Canal wall—down tympanoplasty with soft-wall reconstruction using pedicled temporoparietal fascial flap: technique and preliminary results, 719

Pedicled temporoparietal galeal flap for reconstruction of intraoral defects, 581

Foreign body

Computerized scoring system for diagnosis of foreign body aspiration in children, 839

Framework surgery

Efficacy of additional injection laryngoplasty after framework surgery, 5

Fundamental frequency

Computer-aided technique for automatic determination of relationship between transglottal pressure change and voice fundamental frequency, 876

Gene

Extracellular matrix gene expression after vocal fold injury in rabbit model, 598

Unique transgenic animal model for hereditary hearing loss, 827

Gland

Effect of irradiation on human laryngeal glands, 734

Glossectomy

Digastric muscle sew-up procedure for repair of floor of mouth following pull-through operation for oral cancers, 745

Glycerol

Vestibular evoked periocular potentials in Meniere's disease after glycerol testing, 800 Glycosaminoglycan

Glycosaminoglycan composition of vocal fold lamina propria in relation to function, 371

Graft

Partial lesions of intratemporal segment of facial nerve: graft versus partial reconstruction, 665

Graves' orbitopathy

Image-guided endoscopic orbital decompression for Graves' orbitopathy, 177

Gray's minithyrotomy

Clinical experience with Gray's minithyrotomy procedure, 437

Gustation

Clinical assessment of gustatory function before and after middle ear surgery: prospective study with two-year follow-up period, 769

Harmonic scalpel

Harmonic scalpel tonsillectomy using curved shears instrument versus cold dissection tonsillectomy: retrospective study, 46

Healing

Study of wound healing in rats treated with topical and injected mitomycin C, 786

Hearing aid

Nijmegen results with application of bone-anchored hearing aid in children: simplified surgical technique, 805

Should hearing aid in contralateral ear be recommended for children with unilateral cochlear implant? 397

Tone perception in Cantonese-speaking children with hearing aids, 313

Hearing loss

Auditory evaluation in patients with type 1 diabetes, 366
Hearing impairment in genotyped Wolfram syndrome patients, 494

Pilot study of universal newborn hearing screening in Japan: district-based screening program in Okayama, 166

Sensorineural hearing impairment in children with Chiari I malformation, 443

Sequential bilateral hearing loss in multiple sclerosis, 186 Unique transgenic animal model for hereditary hearing loss, 827

Hemangioma

Giant hypervascular lesion of sinonasal tract invading anterior skull base and orbit: puzzling case, 653

Hepatocyte growth factor

Effect of hepatocyte growth factor on gene expression of extracellular matrix during wound healing of injured rat vocal fold, 696

Heredity

Hearing impairment in genotyped Wolfram syndrome patients, 494

Oropharyngeal Kaposi sarcoma in related persons negative for human immunodeficiency virus, 172

Unique transgenic animal model for hereditary hearing loss, 827

Heterozygosity

Two sites of head and neck squamous cell carcinoma: utility of loss of heterozygosity, 591

High-speed imaging

High-speed imaging used to detect vocal fold paresis: case report, 684

Hormone

Prospective study of impact of thyroid hormone replacement on objective voice parameters, 523

Human herpesvirus 8

Oropharyngeal Kaposi sarcoma in related persons negative for human immunodeficiency virus, 172

25-Hydroxyvitamin D

Plasma 25-hydroxyvitamin D levels in young children undergoing placement of tympanostomy tubes, 740

Hylan B

Hylan B gel restores structure and function to laser-ablated canine vocal folds, 703

Hypervascular lesion

Giant hypervascular lesion of sinonasal tract invading anterior skull base and orbit: puzzling case, 653

Hypopharynx

Clinical and pathologic predictors of survival in patients with squamous cell carcinoma of hypopharynx after surgical treatment, 201

**Imaging** 

Comparison of high-speed digital imaging with stroboscopy for laryngeal imaging of glottal disorders, 413

Is there need for positron emission tomography imaging to stage N0 neck in T1-T2 squamous cell carcinoma of oral cavity or oropharynx? 854

Optical coherence tomography imaging of inner ear: feasibility study with implications for cochlear implantation, 341 Optical coherence tomography of newborn airway, 327

Qualification of quantitative laryngeal imaging system using videostroboscopy and videokymography, 404

Imaging Case Study of the Month Traumatic pneumolabyrinth, 708

Immunologic response

Immunologic response of laryngeal mucosa to extraesophageal reflux, 891

In situ tissue engineering

In situ tissue engineering of cricoid and trachea in canine model, 609

Infan

Cricotracheal resection in children 2 years of age and younger, 110

Inflammation

Changes in cytokine signaling and extracellular matrix production induced by inflammatory factors in cultured vocal fold fibroblasts, 227

Inflammatory cytokine responses to synthetic extracellular matrix injection to vocal fold lamina propria, 221

Inflammatory factor profiles one hour following vocal fold injury, 145

Relationship between mucosal inflammation, computed tomography, and symptomatology in chronic rhinosinusitis without polyposis, 517

Infliximab

Effect of infliximab on experimentally induced otitis media in rats, 470

Influenza

Concurrent influenza A and group A beta-hemolytic streptococcal pharyngotonsillitis, 310

Injection

Efficacy of additional injection laryngoplasty after framework surgery, 5 Injection of botulinum toxin into external laryngeal muscles in pediatric laryngeal paralysis, 614

#### Inner ear

Composition of endolymphatic sac luminal fluid in patient with Mondini dysplasia, 123

#### Interleukin

Interleukin-10 is essential modulator of mucoid metaplasia in mouse otitis media model, 630

### Internal auditory canal

Spinal myxopapillary ependymoma metastatic to bilateral internal auditory canals, 98

#### Intubation

Laryngeal complications of endotracheal intubation, suppl 200

Morphometric study on anatomy of fetal cricoid cartilage and comparison between its inner diameter and endotracheal tube sizes, 774

#### Irradiation

Effect of irradiation on human laryngeal glands, 734

### Kaposi sarcoma

Öropharyngeal Kaposi sarcoma in related persons negative for human immunodeficiency virus, 172

#### Labeling

Retrograde labeling of rat facial nerve with carbocyanine dyes to enhance intraoperative identification, 753

# Lamina propria

Glycosaminoglycan composition of vocal fold lamina propria in relation to function, 371

Hylan B gel restores structure and function to laser-ablated canine vocal folds, 703

# Laryngeal carcinoma

Laryngeal carcinoma in nonsmoking patients, 564

### Laryngeal gland

Effect of irradiation on human laryngeal glands, 734

### Laryngeal suspension

Long-term results of laryngeal suspension and upper esophageal sphincter myotomy as treatment for life-threatening aspiration, 574

# Laryngectomy

Post-laryngectomy speech respiration patterns, 557

### Laryngoscopy

Optical coherence tomography-enhanced microlaryngoscopy: preliminary report of noncontact optical coherence tomography system integrated with surgical microscope, 538

### Laser

Current state of scanning micromanipulator applications with carbon dioxide laser, 239

Endoscopic KTP laser photocoagulation therapy for pharyngolaryngeal venous malformations in adults, 881

Office pulsed dye laser treatment for benign laryngeal vascular polyps: preliminary study, 353

Photoangiolytic laser treatment of early glottic cancer: new management strategy, suppl 199

### Lemierre's syndrome

Lemierre's syndrome: what are roles for anticoagulation and long-term antibiotic therapy? 679

Letters to the Editor, 80, 395, 554, 555

### Leukoplakia

Institutional and comprehensive review of laryngeal leuko-

plakia, 74

#### LifeStat

Utilization of LifeStat emergency airway device, 1

### Lobular capillary hemangioma

Giant hypervascular lesion of sinonasal tract invading anterior skull base and orbit: puzzling case, 653

### Lymphatic malformation

Cystic lymphatic malformation of middle ear, 824

### Macula flava

Roles of vitamin A and macula flava in maintaining vocal folds, 65

### Magnetic resonance sialography

Comparative ultrasonographic, magnetic resonance sialographic, and videoendoscopic assessment of salivary duct disorders, 245

#### Malformation

Cystic lymphatic malformation of middle ear, 824

Endoscopic KTP laser photocoagulation therapy for pharyngolaryngeal venous malformations in adults, 881

#### Management

Management of neurologic disorders of larynx, 317

### Meniere's disease

Contemporary role of endolymphatic mastoid shunt surgery in era of transtympanic perfusion strategies, 871

Vestibular evoked periocular potentials in Meniere's disease after glycerol testing, 800

#### Metalloproteinase

Matrix metalloproteinases 2 and 9 are concentrated in luminal aspect of cricoid cartilage, diminish with loss of perichondrium, and are reinstated by transforming growth factor beta 3, 925

### Metaplasia

Interleukin-10 is essential modulator of mucoid metaplasia in mouse otitis media model, 630

Vitamin A deficiency causes metaplasia in vocal fold epithelium: rat study, 153

### Metastasis

Is there need for positron emission tomography imaging to stage N0 neck in T1-T2 squamous cell carcinoma of oral cavity or oropharynx? 854

Spinal myxopapillary ependymoma metastatic to bilateral internal auditory canals, 98

Two sites of head and neck squamous cell carcinoma: utility of loss of heterozygosity, 591

### Microendoscopy

Commentary on "Microendoscopy of Reinke's Space," 515 Microendoscopy of Reinke's space, 510

### Microlaryngoscopy

Optical coherence tomography—enhanced microlaryngoscopy: preliminary report of noncontact optical coherence tomography system integrated with surgical microscope, 538

### Micromanipulator

Current state of scanning micromanipulator applications with carbon dioxide laser, 239

### Middle ear

Cystic lymphatic malformation of middle ear, 824

Outcomes of otologic surgeries with special interest in learning curves of residents in tertiary referral setting, 103

### Minithyrotomy

Clinical experience with Gray's minithyrotomy procedure,

437

Mitomycin C

Study of wound healing in rats treated with topical and injected mitomycin C, 786

Mondini dysplasia

Composition of endolymphatic sac luminal fluid in patient with Mondini dysplasia, 123

Mucin

Mucin gene expression in human laryngeal epithelia: effect of laryngopharyngeal reflux, 688

Mucocele

Large concha bullosa mucopyocele replacing anterior ethmoid sinuses and contiguous with frontal sinus, 15

Mucociliary transport time

Effect of oxymetazoline on healthy human nasal ciliary beat frequency measured with high-speed digital microscopy and mucociliary transport time, 127

Mucosa

Immunologic response of laryngeal mucosa to extraesophageal reflux, 891

Mucus

EP4 agonist inhibits lipopolysaccharide-induced mucus secretion in airway epithelial cells, 51

Multiple sclerosis

Sequential bilateral hearing loss in multiple sclerosis, 186

Muscle

Intrinsic laryngeal muscle reinnervation using muscle pervemuscle technique, 382

Myocarditis

Acute myopericarditis complicating acute tonsillitis: beware young male patient with tonsillitis complaining of chest pain, 295

Nasopharyngeal carcinoma

Expression and clinical significance of epidermal growth factor receptor and type 1 insulin-like growth factor receptor in nasopharyngeal carcinoma, 192

Nerve

Clinical assessment of gustatory function before and after middle ear surgery: prospective study with two-year follow-up period, 769

Evaluation of functional recovery of recurrent laryngeal nerve using transoral laryngeal bipolar electromyography: rat model, 604

Intrinsic laryngeal muscle reinnervation using muscle-nervemuscle technique, 382

Management of neurologic disorders of larynx, 317

Preoperative laryngeal nerve screening for revision anterior cervical spine procedures, 594

Reflex vocal fold adduction in porcine model: effects of stimuli delivered to various sensory nerves, 749

Retrograde labeling of rat facial nerve with carbocyanine dyes to enhance intraoperative identification, 753

Neurologic disorder

Management of neurologic disorders of larynx, 317

Neuromuscular electrical stimulation

Adjunctive neuromuscular electrical stimulation for treatment-refractory dysphagia, 279

Newborn

Pilot study of universal newborn hearing screening in Japan: district-based screening program in Okayama, 166 Oncostatin M

Expression of oncostatin M in chronic obstructive sialadenitis of submandibular gland, 347

Optical coherence tomography

Optical coherence tomography-enhanced microlaryngoscopy: preliminary report of noncontact optical coherence tomography system integrated with surgical microscope, 538

Optical coherence tomography imaging of inner ear: feasibility study with implications for cochlear implantation, 341 Optical coherence tomography of newborn airway, 327

Orbit

Image-guided endoscopic orbital decompression for Graves orbitopathy, 177

Unilateral blindness following septoplasty, 528

Osseointegration

Nijmegen results with application of bone-anchored hearing aid in children: simplified surgical technique, 805

Osteogenesis imperfecta

Neonatal upper airway obstruction in osteogenesis imperfecta: series of three cases and review of literature, 27

Otitis media

Effect of infliximab on experimentally induced otitis media in rats, 470

Interleukin-10 is essential modulator of mucoid metaplasia in mouse otitis media model, 630

Obstruction of eustachian tube orifice and pressure changes in middle ear: are they correlated? 425

Recovery of potential pathogens in nasopharynx of healthy and otitis media-prone children and their smoking and nonsmoking parents, 727

Otosclerosis

Bilateral stapedectomy: association between first- and second-ear surgical findings and their effects on second-ear outcome, 207

Observations on bilateral symmetry of stapedial footplate lesion and narrowing of oval window niche in otosclerosis, 569

Outcome

Multicenter registry of balloon catheter sinusotomy outcomes for 1,036 patients, 263

Outcomes of otologic surgeries with special interest in learning curves of residents in tertiary referral setting, 103

Pediatric voice-related quality of life: findings in healthy children and in common laryngeal disorders, 259

Treatment of tinnitus with customized, dynamic acoustic neural stimulus: clinical outcomes in general private practice, 791

Oval window

Observations on bilateral symmetry of stapedial footplate lesion and narrowing of oval window niche in otosclerosis, 569

Oxymetazoline

Effect of oxymetazoline on healthy human nasal ciliary beat frequency measured with high-speed digital microscopy and mucociliary transport time, 127

Pacing

Evaluation of deep brain stimulation electrode for laryngeal pacing, 621

**Papillomatosis** 

Cidofovir efficacy in recurrent respiratory papillomatosis: randomized, double-blind, placebo-controlled study, 477 Histologic review of cidofovir-treated recurrent respiratory papillomatosis, 113

#### **Paralysis**

Ansa cervicalis-to-recurrent laryngeal nerve anastomosis for unilateral vocal fold paralysis: experience of single institution, 40

Collagen injection as supplement to arytenoid adduction for vocal fold paralysis, 430

Injection of botulinum toxin into external laryngeal muscles in pediatric laryngeal paralysis, 614

Partial lesions of intratemporal segment of facial nerve: graft versus partial reconstruction, 665

Performance of automated, remote system to detect vocal fold paralysis, 834

Vocal fold paralysis in infants with tracheoesophageal fistula, 896

#### **Paresis**

High-speed imaging used to detect vocal fold paresis: case report, 684

Particle imaging velocimetry

Using particle imaging velocimetry to measure anterior-posterior velocity gradients in excised canine larynx model, 134

### Pepsin

Mucin gene expression in human laryngeal epithelia: effect of laryngopharyngeal reflux, 688

# Perceptual evaluation

Reliability of perceptual evaluation of adductor spasmodic dysphonia, 159

### Pericarditis

Acute myopericarditis complicating acute tonsillitis: beware young male patient with tonsillitis complaining of chest pain, 295

### Pharynx

Staged surgical management of hypopharyngeal traction diverticulum, 731

# Phonation threshold flow

Phonation threshold flow in elongated excised larynges, 548

### Phonovibrogram

Preliminary study on quantitative analysis of vocal loading effects on vocal fold dynamics using phonovibrograms, 484

### Photoangiolytic laser treatment

Photoangiolytic laser treatment of early glottic cancer: new management strategy, suppl 199

### Photocoagulation

Endoscopic KTP laser photocoagulation therapy for pharyngolaryngeal venous malformations in adults, 881

### Pitch

Pitch deviation analysis of pathological voice in connected speech, 90

### Pneumolabyrinth

Traumatic pneumolabyrinth, 708

### Polyp

Airway obstruction: rare complication of benign vocal fold polyps, 106

Endoscopic removal of giant fibrovascular polyp of esophagus. 587

Office pulsed dye laser treatment for benign laryngeal vascular polyps: preliminary study, 353

### Positron emission tomography

Is there need for positron emission tomography imaging to stage N0 neck in T1-T2 squamous cell carcinoma of oral cavity or oropharynx? 854

#### Potentia

Vestibular evoked myogenic and periocular potentials after vestibular schwannoma surgery, 11

Vestibular evoked periocular potentials in Meniere's disease after glycerol testing, 800

### **Prognosis**

Clinical and pathologic predictors of survival in patients with squamous cell carcinoma of hypopharynx after surgical treatment, 201

### Prostaglandin

EP4 agonist inhibits lipopolysaccharide-induced mucus secretion in airway epithelial cells, 51

### Proteoglycan

Glycosaminoglycan composition of vocal fold lamina propria in relation to function, 371

### Proton pump inhibitor

Patient compliance with proton pump inhibitor therapy in otolaryngology practice, 670

### Pull-through operation

Digastric muscle sew-up procedure for repair of floor of mouth following pull-through operation for oral cancers, 745

### Pulsed dye laser

Office pulsed dye laser treatment for benign laryngeal vascular polyps: preliminary study, 353

### Quality of life

Pediatric voice-related quality of life: findings in healthy children and in common laryngeal disorders, 259

Validity and reliability of Eating Assessment Tool (EAT-10),

# Questionnaire

Uvulopalatopharyngoplasty: results of patient questionnaire, 24

### Radiotherapy

Development of mucosal thickening after radiotherapy in contralateral sinuses of patients with nasal cavity and/or paranasal sinus carcinoma, 844

### Receptor

Expression and clinical significance of epidermal growth factor receptor and type 1 insulin-like growth factor receptor in nasopharyngeal carcinoma, 192

### Reconstruction

Canal wall-down tympanoplasty with soft-wall reconstruction using pedicled temporoparietal fascial flap: technique and preliminary results, 719

Clinical application of in situ tissue engineering using scaffolding technique for reconstruction of larynx and trachea, 673

Pedicled temporoparietal galeal flap for reconstruction of intraoral defects, 581

# Recurrent croup

Correlating clinical course of recurrent croup with endoscopic findings: retrospective observational study, 464

### Recurrent laryngeal nerve

Ansa cervicalis-to-recurrent laryngeal nerve anastomosis for unilateral vocal fold paralysis: experience of single institution, 40

Recurrent respiratory papillomatosis

Cidofovir efficacy in recurrent respiratory papillomatosis: randomized, double-blind, placebo-controlled study, 477

Reflex

Reflex vocal fold adduction in porcine model: effects of stimuli delivered to various sensory nerves, 749

Reflux

Immunologic response of laryngeal mucosa to extraesophageal reflux, 891

Mucin gene expression in human laryngeal epithelia: effect of laryngopharyngeal reflux, 688

Patient compliance with proton pump inhibitor therapy in otolaryngology practice, 67

Transnasal esophagoscopy: white-light versus narrowband imaging, 886

Regeneration

Effect of fibroblasts on epithelial regeneration on surface of bioengineered trachea, 59

In situ tissue engineering of cricoid and trachea in canine model, 609

Regeneration of trachea using bioengineered scaffold with adipose-derived stem cells, 453

Reinke's space

Commentary on "Microendoscopy of Reinke's Space," 515 Microendoscopy of Reinke's space, 510

Reinnervation

Intrinsic laryngeal muscle reinnervation using muscle-nervemuscle technique, 382

Respiration

Post-laryngectomy speech respiration patterns, 557

Respiratory papillomatosis

Histologic review of cidofovir-treated recurrent respiratory papillomatosis, 113

Retrocochlear hearing loss

Effects of cochlear nuclei electrical stimulation with surface brain stem implants in nonhuman primates, 212

Rhinosinusitis

Sinocutaneous fistula secondary to chronic frontal rhinosinusitis: case series and literature review, 759

Salivary duct

Comparative ultrasonographic, magnetic resonance sialographic, and videoendoscopic assessment of salivary duct disorders, 245

Role of sialoscopy in treatment of Stensen's duct strictures, 271

Scaffold

Clinical application of in situ tissue engineering using scaffolding technique for reconstruction of larynx and trachea, 673

Scalpe

Harmonic scalpel tonsillectomy using curved shears instrument versus cold dissection tonsillectomy: retrospective study, 46

Scanning

Current state of scanning micromanipulator applications with carbon dioxide laser, 239

Scar

Extracellular matrix gene expression after vocal fold injury in rabbit model, 598

Schwannoma

Abnormal deviation of subjective visual horizontal in patients

with vestibular schwannoma, 641

Vestibular evoked myogenic and periocular potentials after vestibular schwannoma surgery, 11

Scoring system

Computerized scoring system for diagnosis of foreign body aspiration in children, 839

Screening

Pilot study of universal newborn hearing screening in Japan: district-based screening program in Okayama, 166

Sedation

Dexmedetomidine sedation for laryngeal framework surgery, 659

Sensorineural hearing loss

Sensorineural hearing impairment in children with Chiari I malformation, 443

Septoplasty

Unilateral blindness following septoplasty, 528

Sequential bilateral hearing loss

Sequential bilateral hearing loss in multiple sclerosis, 186

Shun

Contemporary role of endolymphatic mastoid shunt surgery in era of transtympanic perfusion strategies, 871

Sialadenitis

Expression of oncostatin M in chronic obstructive sialadenitis of submandibular gland, 347

Sialorrhea

Botulinum toxin injection to salivary glands for treatment of sialorrhea with chronic aspiration, 118

Sialendoscopy

Microendoscopy of Reinke's space, 510

Role of sialoscopy in treatment of Stensen's duct strictures, 271

Silibinin

Cell growth inhibition and down-regulation of survivin by silibinin in laryngeal squamous cell carcinoma cell line, 781

Single-sided deafness

Incapacitating unilateral tinnitus in single-sided deafness treated by cochlear implantation, 645

Sinocutaneous fistula

Sinocutaneous fistula secondary to chronic frontal rhinosinusitis: case series and literature review, 759

Sinus

Assessment of trends in antimicrobial resistance in chronic rhinosinusitis, 448

Contralateral maxillary sinus lesions in patients with nasal cavity and/or paranasal sinus carcinoma: analysis of computed tomography findings, 909

Development of mucosal thickening after radiotherapy in contralateral sinuses of patients with nasal cavity and/or paranasal sinus carcinoma, 844

Endoscopic management of sphenoid sinus cerebrospinal fluid leaks, 32

Large concha bullosa mucopyocele replacing anterior ethmoid sinuses and contiguous with frontal sinus, 15

Multicenter registry of balloon catheter sinusotomy outcomes for 1,036 patients, 263

Treatment of sinusitis with corticosteroids in combination with antibiotics in experimentally induced rhinosinusitis, 389

Sleep apnea

Adjustable tongue advancement for obstructive sleep apnea: pilot study, 815

Postoperative monitoring of esophageal pressure in patients with obstructive sleep apnea-hypopnea syndrome who have undergone tonsillectomy with uvulopalatopharyngoplasty, 849

**Smoking** 

Laryngeal carcinoma in nonsmoking patients, 564

Recovery of potential pathogens in nasopharynx of healthy and otitis media-prone children and their smoking and nonsmoking parents, 727

Sonotubometry

Results of sonotubometry in testing eustachian tube ventilatory function in children with cleft palate, 335

Spasmodic dysphonia

Reliability of perceptual evaluation of adductor spasmodic dysphonia, 159

Speech

Performance of automated, remote system to detect vocal fold paralysis, 834

Pitch deviation analysis of pathological voice in connected speech, 90

Post-laryngectomy speech respiration patterns, 557

Spine

Preoperative laryngeal nerve screening for revision anterior cervical spine procedures, 594

Staged surgical management of hypopharyngeal traction diverticulum, 731

Squamous cell carcinoma

Clinical and pathologic predictors of survival in patients with squamous cell carcinoma of hypopharynx after surgical treatment, 201

Two sites of head and neck squamous cell carcinoma: utility of loss of heterozygosity, 591

Stapes

Bilateral stapedectomy: association between first- and second-ear surgical findings and their effects on second-ear outcome, 207

Observations on bilateral symmetry of stapedial footplate lesion and narrowing of oval window niche in otosclerosis, 569

Stem cell

Regeneration of trachea using bioengineered scaffold with adipose-derived stem cells, 453

Stenosis

Cricotracheal resection in children 2 years of age and younger, 110

Cricotracheal resection in nontracheotomized adults: prospective case series, 288

How does cricotracheal resection affect female voice? 85

Matrix metalloproteinases 2 and 9 are concentrated in luminal aspect of cricoid cartilage, diminish with loss of perichondrium, and are reinstated by transforming growth factor beta 3, 925

Role of balloon dilation in management of adult idiopathic subglottic stenosis, 81

Stensen's duct

Role of sialoscopy in treatment of Stensen's duct strictures, 271

Streptococcus

Concurrent influenza A and group A beta-hemolytic strepto-

coccal pharyngotonsillitis, 310

Stroboscopy

Comparison of high-speed digital imaging with stroboscopy for laryngeal imaging of glottal disorders, 413

Qualification of quantitative laryngeal imaging system using videostroboscopy and videokymography, 404

Subjective visual horizontal

Abnormal deviation of subjective visual horizontal in patients with vestibular schwannoma, 641

Submandibular gland

Expression of oncostatin M in chronic obstructive sialadenitis of submandibular gland, 347

Survivi

Cell growth inhibition and down-regulation of survivin by silibinin in laryngeal squamous cell carcinoma cell line, 781

Swallowing

Adjunctive neuromuscular electrical stimulation for treatment-refractory dysphagia, 279

Assessment of swallowing sounds by digital cervical auscultation in children, 253

Validity and reliability of Eating Assessment Tool (EAT-10), 919

Symptomatology

Relationship between mucosal inflammation, computed tomography, and symptomatology in chronic rhinosinusitis without polyposis, 517

Taste

Clinical assessment of gustatory function before and after middle ear surgery: prospective study with two-year follow-up period, 769

Temperature

Effect of changing airway pressure on ability of human nose to warm and humidify air, 501

Thyroid hormone

Prospective study of impact of thyroid hormone replacement on objective voice parameters, 523

Thyrotomy

Clinical experience with Gray's minithyrotomy procedure, 437

Tinnitus

Incapacitating unilateral tinnitus in single-sided deafness treated by cochlear implantation, 645

Treatment of tinnitus with customized, dynamic acoustic neural stimulus: clinical outcomes in general private practice, 791

Tissue engineering

Clinical application of in situ tissue engineering using scaffolding technique for reconstruction of larynx and trachea, 673

Hylan B gel restores structure and function to laser-ablated canine vocal folds, 703

In situ tissue engineering of cricoid and trachea in canine model, 609

Tone perception

Tone perception in Cantonese-speaking children with hearing aids, 313

Tonque

Adjustable tongue advancement for obstructive sleep apnea: pilot study, 815

#### Tonsil

Acute myopericarditis complicating acute tonsillitis: beware young male patient with tonsillitis complaining of chest pain, 295

Coblation-assisted lingual tonsillectomy for dysphagia secondary to tongue base hypertrophy, 506

Concurrent influenza A and group A beta-hemolytic streptococcal pharyngotonsillitis, 310

Harmonic scalpel tonsillectomy using curved shears instrument versus cold dissection tonsillectomy: retrospective study, 46

Novel technique for peritonsillar abscess drainage, 637

Postoperative monitoring of esophageal pressure in patients with obstructive sleep apnea-hypopnea syndrome who have undergone tonsillectomy with uvulopalatopharyngoplasty, 849

#### Trachea

Regeneration of trachea using bioengineered scaffold with adipose-derived stem cells, 453

Regeneration of tracheal epithelium utilizing novel bipotential collagen scaffold, 359

Vocal fold paralysis in infants with tracheoesophageal fistula, 896

#### Tracheotomy

Neonatal upper airway obstruction in osteogenesis imperfecta: series of three cases and review of literature, 27

### Transnasal esophagoscopy

Transnasal esophagoscopy: white-light versus narrowband imaging, 886

### Transoral electromyography

Evaluation of functional recovery of recurrent laryngeal nerve using transoral laryngeal bipolar electromyography: rat model, 604

# Trauma

Partial lesions of intratemporal segment of facial nerve: graft versus partial reconstruction, 665

Traumatic pneumolabyrinth, 708

### Tumor necrosis factor alpha

Effect of infliximab on experimentally induced otitis media in rats, 470

### Tympanoplasty

Canal wall-down tympanoplasty with soft-wall reconstruction using pedicled temporoparietal fascial flap: technique and preliminary results, 719

### Tympanostomy tube

Plasma 25-hydroxyvitamin D levels in young children undergoing placement of tympanostomy tubes, 740

### Ultrasonography

Comparative ultrasonographic, magnetic resonance sialographic, and videoendoscopic assessment of salivary duct disorders. 245

### Uvulopalatopharyngoplasty

Uvulopalatopharyngoplasty: results of patient questionnaire,

### Vacuum-assisted closure

Orocutaneous and pharyngocutaneous fistula closure using vacuum-assisted closure system, 298

### Velocity

Using particle imaging velocimetry to measure anterior-posterior velocity gradients in excised canine larynx model, 134

# Vestibular system

Abnormal deviation of subjective visual horizontal in patients

with vestibular schwannoma, 641

Prevalence and characteristics of preoperative balance disorders in cochlear implant candidates, 764

Vestibular evoked myogenic and periocular potentials after vestibular schwannoma surgery, 11

# Videokymography

Qualification of quantitative laryngeal imaging system using videostroboscopy and videokymography, 404

#### Vitamir

Cod liver oil, vitamin A toxicity, frequent respiratory infections, and vitamin D deficiency epidemic, 864

Plasma 25-hydroxyvitamin D levels in young children undergoing placement of tympanostomy tubes, 740

Roles of vitamin A and macula flava in maintaining vocal folds, 65

Vitamin A deficiency causes metaplasia in vocal fold epithelium: rat study, 153

### Vocal fold

High-speed imaging used to detect vocal fold paresis: case report, 684

Institutional and comprehensive review of laryngeal leukoplakia, 74

Phonation threshold flow in elongated excised larynges, 548

### Voice

Comparison of high-speed digital imaging with stroboscopy for laryngeal imaging of glottal disorders, 413

Computer-aided technique for automatic determination of relationship between transglottal pressure change and voice fundamental frequency, 876

Efficacy of additional injection laryngoplasty after framework surgery, 5

How does cricotracheal resection affect female voice? 85 Pediatric voice-related quality of life: findings in healthy

children and in common laryngeal disorders, 259
Performance of automated, remote system to detect vocal fold paralysis, 834

Pitch deviation analysis of pathological voice in connected speech, 90

Preliminary study on quantitative analysis of vocal loading effects on vocal fold dynamics using phonovibrograms, 484

Prospective study of impact of thyroid hormone replacement on objective voice parameters, 523

Reliability of perceptual evaluation of adductor spasmodic dysphonia, 159

Using particle imaging velocimetry to measure anterior-posterior velocity gradients in excised canine larynx model, 134

### Water content

Effect of changing airway pressure on ability of human nose to warm and humidify air, 501

# Wolfram syndrome

Hearing impairment in genotyped Wolfram syndrome patients, 494

## Wound healing

Effect of hepatocyte growth factor on gene expression of extracellular matrix during wound healing of injured rat vocal fold, 696

Inflammatory factor profiles one hour following vocal fold injury, 145

Study of wound healing in rats treated with topical and injected mitomycin C, 786

### Zenker's diverticulum

Endoscopic management of Zenker's diverticulum: factors predictive of success or failure, 531